

GenCore version 5.1.4.p5.4578  
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OM protein - protein search, using sw model

Run on: April 1, 2003, 08:47:16 ; Search time 18 Seconds  
(without alignments)  
1525.005 Million cell updates/sec

Title: US-09-768-781-3

Perfect score: 2316

Sequence: 1 MDRVYIPEEPNVDPVSSLE.....RTRVENSEPPFTEARQSVV 449

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 248812 seqs, 61136040 residues

Total number of hits satisfying chosen parameters: 248812

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:	12:	13:	14:
	/cgn2_6/ptodata/1/pubpaa/US08 NEW PUB.pcp.*	/cgn2_6/ptodata/1/pubpaa/PCT NEW PUB.pcp.*	/cgn2_6/ptodata/1/pubpaa/US06 NEW PUB.pcp.*	/cgn2_6/ptodata/1/pubpaa/US06 PUBCOMB.pcp.*	/cgn2_6/ptodata/1/pubpaa/US07 NEW PUB.pcp.*	/cgn2_6/ptodata/1/pubpaa/US07 PUBCOMB.pcp.*	/cgn2_6/ptodata/1/pubpaa/PCTUS PUBCOMB.pcp.*	/cgn2_6/ptodata/1/pubpaa/US08 PUBCOMB.pcp.*	/cgn2_6/ptodata/1/pubpaa/US09 NEW PUB.pcp.*	/cgn2_6/ptodata/1/pubpaa/US09 PUBCOMB.pcp.*	/cgn2_6/ptodata/1/pubpaa/US10 NEW PUB.pcp.*	/cgn2_6/ptodata/1/pubpaa/US10 PUBCOMB.pcp.*	/cgn2_6/ptodata/1/pubpaa/US60 NEW PUB.pcp.*	/cgn2_6/ptodata/1/pubpaa/US60 PUBCOMB.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2316	100.0	449	10	US-09-768-781-3
2	2301	99.4	449	10	US-09-768-781-7
3	2301	99.4	462	10	US-09-768-781-4
4	939.5	40.6	405	10	US-09-768-781-6
5	607	26.2	216	10	US-09-864-761-33387
6	572	24.7	125	9	US-10-092-154-595
7	572	24.7	125	10	US-09-764-847-595
8	354	15.3	128	10	US-09-864-761-37894
9	174.5	7.5	86	10	US-09-864-761-35764
10	113	4.9	686	9	US-10-174-590-524
11	113	4.9	686	9	US-10-176-758-524
12	113	4.9	686	9	US-10-175-737-524
13	113	4.9	686	9	US-10-173-706-524
14	113	4.9	686	9	US-10-175-738-524
15	113	4.9	686	9	US-10-175-752-524
16	113	4.9	686	9	US-10-176-482-524
17	113	4.9	686	9	US-10-176-757-524
18	113	4.9	686	9	US-10-176-913-524
19	113	4.9	686	9	US-10-180-552-524

20	113	4.9	686	9	US-10-180-557-524	Sequence 524, App
21	113	4.9	686	9	US-10-173-700-524	Sequence 524, App
22	113	4.9	686	9	US-10-174-572-524	Sequence 524, App
23	113	4.9	686	9	US-10-174-579-524	Sequence 524, App
24	113	4.9	686	9	US-10-174-582-524	Sequence 524, App
25	113	4.9	686	9	US-10-174-588-524	Sequence 524, App
26	113	4.9	686	9	US-10-175-739-524	Sequence 524, App
27	113	4.9	686	9	US-10-175-740-524	Sequence 524, App
28	113	4.9	686	9	US-10-175-743-524	Sequence 524, App
29	113	4.9	686	9	US-10-176-488-524	Sequence 524, App
30	113	4.9	686	9	US-10-176-492-524	Sequence 524, App
31	113	4.9	686	9	US-10-176-747-524	Sequence 524, App
32	113	4.9	686	9	US-10-176-750-524	Sequence 524, App
33	113	4.9	686	9	US-10-176-985-524	Sequence 524, App
34	113	4.9	686	9	US-10-176-987-524	Sequence 524, App
35	113	4.9	686	9	US-10-176-991-524	Sequence 524, App
36	113	4.9	686	9	US-10-176-992-524	Sequence 524, App
37	113	4.9	686	9	US-10-176-993-524	Sequence 524, App
38	113	4.9	686	9	US-10-184-658-524	Sequence 524, App
39	113	4.9	686	9	US-10-173-695-524	Sequence 524, App
40	113	4.9	686	9	US-10-173-697-524	Sequence 524, App
41	113	4.9	686	9	US-10-173-705-524	Sequence 524, App
42	113	4.9	686	9	US-10-174-576-524	Sequence 524, App
43	113	4.9	686	9	US-10-174-585-524	Sequence 524, App
44	113	4.9	686	9	US-10-174-586-524	Sequence 524, App
45	113	4.9	686	9	US-10-175-747-524	Sequence 524, App

#### ALIGNMENTS

##### RESULT 1

US-09-768-781-3  
; Sequence 3, Application US/09768781  
; Patent No. US20020142376A1

; GENERAL INFORMATION:

; APPLICANT: MERKULOV, Gennady V. et al

; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,

; FILE REFERENCE: CL001057-CIP

; CURRENT APPLICATION NUMBER: US/09/768,781

; CURRENT FILING DATE: 2001-01-25

; NUMBER OF SEQ ID NOS: 7

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 3

; LENGTH: 449

; TYPE: PRT

; ORGANISM: Human

US-09-768-781-3

Query Match 100.0%; Score 2316; DB 10; Length 449;

Best Local Similarity 100.0%; Pred. No. 3.2e-213;

Matches 449; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDRVYIPEEPNVDPVSSLEEDVIRGANPRFTFPFSLFTFLYCGEASALYVMVIRYRK 60

Db 1 MDRVYIPEEPNVDPVSSLEEDVIRGANPRFTFPFSLFTFLYCGEASALYVMVIRYRK 60

QY 61 NSETVMTYTFSEFFMSSIMVOLTLFVHRDLAKDPLSLFMHLILGVPVIRCLEAMIKY 120

Db 61 NSETVMTYTFSEFFMSSIMVOLTLFVHRDLAKDPLSLFMHLILGVPVIRCLEAMIKY 120

QY 121 LTIWKEEPEPVSLTRKMLIDGEEVLIEWGVHSIRTLAMHRNAYKMSQIQAFILGS 180

Db 121 LTIWKEEPEPVSLTRKMLIDGEEVLIEWGVHSIRTLAMHRNAYKMSQIQAFILGS 180

QY 181 VPQLTYQLVSLISAEVPLGRVVLVMSVSVTYGATLCNMLAIQIKYDDYKIRLGPLEV 240

Db 181 VPQLTYQLVSLISAEVPLGRVVLVMSVSVTYGATLCNMLAIQIKYDDYKIRLGPLEV 240

QY 241 LCITITWRTLEISRLILVFSATLKLKAVPFLVFLNLLILFPFWIKFWSGAOMPNNIE 300

Db 241 LCITITWRTLEISRLILVFSATLKLKAVPFLVFLNLLILFPFWIKFWSGAOMPNNIE 300

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Db 241 LCITITWRTLEITSRLILVLSATLKLKAVPFLVNLNFIILPEPWIKFWRSGAQMNNIE 300
Qy 301 KNFSRVGTLVNLISVTILYAGINFSCWSALQRLADRLVDKQNGHGLHYSVRLVEN 360
Db 301 KNFSRVGTLVNLISVTILYAGINFSCWSALQRLADRLVDKQNGHGLHYSVRLVEN 360
Qy 361 VIMLVKFFGKVLNCHSLIALQLIAYLISIDFMLLFFQYLHPLSLFTHNVVDYL 420
Db 361 VIMLVKFFGKVLNCHSLIALQLIAYLISIDFMLLFFQYLHPLSLFTHNVVDYL 420
Qy 421 HCVCCQHPRTRVNSEPPFTEARQSVV 449
Db 421 HCVCCQHPRTRVNSEPPFTEARQSVV 449

RESULT 2
US-09-768-781-7
; Sequence 7, Application US/09768781
; Patent No. US20020142376A1
; GENERAL INFORMATION:
; APPLICANT: MERKULOV, Gennady V. et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001057-CIP
; CURRENT APPLICATION NUMBER: US/09/768,781
; CURRENT FILING DATE: 2001-01-25
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 449
; TYPE: PRT
; ORGANISM: Mus Musculus
US-09-768-781-7

Query Match 99.4%; Score 2301; DB 10; Length 449;
Best Local Similarity 99.6%; Pred. No. 8.6e-212;
Matches 447; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MDRVVEIPEEPNVDPVSSLEEDVIRGANPRFTFPFSILFSTFLYCGEASALYVMRIYRK 60
Db 1 MDRVVEIPEEPNVDPVSSLEEDVIRGANPRFTFPFSILFSTFLYCGEASALYVMRIYRK 60

Qy 61 NSETYRMTYTFSSFFMFSSIMVQTLIFVHRDLAKDKPLSLFMHLILLGPIVIRCLEAMIKY 120
Db 61 NSETYRMTYTFSSFFMFSSIMVQTLIFVHRDLAKDKPLSLFMHLILLGPIVIRCLEAMIKY 120

Qy 121 LTLWKKEQEPYVSLTRKMLIDGEEVLIEWEUGHSTIRTLAMHRYNAYKRMISOIAFLGS 180
Db 121 LTLWKKEQEPYVSLTRKMLIDGEEVLIEWEUGHSTIRTLAMHRYNAYKRMISOIAFLGS 180

Qy 181 VPQITYQLYVLSIAEVLGRVVLVMSVSVTYGATLCNMLAIQIKYDDYKIRLGPLEV 240
Db 181 VPQITYQLYVLSIAEVLGRVVLVMSVSVTYGATLCNMLAIQIKYDDYKIRLGPLEV 240

Qy 241 LCITITWRTLEITSRLILVLSATLKLKAVPFLVNLNFIILPEPWIKFWRSGAQMNNIE 300
Db 241 LCITITWRTLEITSRLILVLSATLKLKAVPFLVNLNFIILPEPWIKFWRSGAQMNNIE 300

Qy 301 KNFSRVGTLVNLISVTILYAGINFSCWSALQRLADRLVDKQNGHGLHYSVRLVEN 360
Db 301 KNFSRVGTLVNLISVTILYAGINFSCWSALQRLADRLVDKQNGHGLHYSVRLVEN 360

Qy 361 VIMLVKFFGKVLNCHSLIALQLIAYLISIDFMLLFFQYLHPLSLFTHNVVDYL 420
Db 361 VIMLVKFFGKVLNCHSLIALQLIAYLISIDFMLLFFQYLHPLSLFTHNVVDYL 420

Qy 421 HCVCCQHPRTRVNSEPPFTEARQSVV 449
Db 421 HCVCCQHPRTRVNSEPPFTEARQSVV 449

RESULT 3
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US-09-768-781-4
; Sequence 4, Application US/09768781
; Patent No. US20020142376A1
; GENERAL INFORMATION:
; APPLICANT: MERKULOV, Gennady V. et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001057-CIP
; CURRENT APPLICATION NUMBER: US/09/768,781
; CURRENT FILING DATE: 2001-01-25
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 462
; TYPE: PRT
; ORGANISM: Human
US-09-768-781-4

Query Match 99.4%; Score 2301; DB 10; Length 462;
Best Local Similarity 99.6%; Pred. No. 8.9e-212;
Matches 447; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MDRVVEIPEEPNVDPVSSLEEDVIRGANPRFTFPFSILFSTFLYCGEASALYVMRIYRK 60
Db 14 MDRVVEIPEEPNVDPVSSLEEDVIRGANPRFTFPFSILFSTFLYCGEASALYVMRIYRK 73

Qy 61 NSETYRMTYTFSSFFMFSSIMVQTLIFVHRDLAKDKPLSLFMHLILLGPIVIRCLEAMIKY 120
Db 74 NSETYRMTYTFSSFFMFSSIMVQTLIFVHRDLAKDKPLSLFMHLILLGPIVIRCLEAMIKY 133

Qy 121 LTLWKKEQEPYVSLTRKMLIDGEEVLIEWEUGHSTIRTLAMHRYNAYKRMISOIAFLGS 180
Db 134 LTLWKKEQEPYVSLTRKMLIDGEEVLIEWEUGHSTIRTLAMHRYNAYKRMISOIAFLGS 193

Qy 181 VPQITYQLYVLSIAEVLGRVVLVMSVSVTYGATLCNMLAIQIKYDDYKIRLGPLEV 240
Db 194 VPQITYQLYVLSIAEVLGRVVLVMSVSVTYGATLCNMLAIQIKYDDYKIRLGPLEV 253

Qy 241 LCITITWRTLEITSRLILVLSATLKLKAVPFLVNLNFIILPEPWIKFWRSGAQMNNIE 300
Db 254 LCITITWRTLEITSRLILVLSATLKLKAVPFLVNLNFIILPEPWIKFWRSGAQMNNIE 313

Qy 301 KNFSRVGTLVNLISVTILYAGINFSCWSALQRLADRLVDKQNGHGLHYSVRLVEN 360
Db 314 KNFSRVGTLVNLISVTILYAGINFSCWSALQRLADRLVDKQNGHGLHYSVRLVEN 373

Qy 361 VIMLVKFFGKVLNCHSLIALQLIAYLISIDFMLLFFQYLHPLSLFTHNVVDYL 420
Db 374 VIMLVKFFGKVLNCHSLIALQLIAYLISIDFMLLFFQYLHPLSLFTHNVVDYL 433

Qy 421 HCVCCQHPRTRVNSEPPFTEARQSVV 449
Db 434 HCVCCQHPRTRVNSEPPFTEARQSVV 462

RESULT 4
US-09-768-781-6
; Sequence 6, Application US/09768781
; Patent No. US20020142376A1
; GENERAL INFORMATION:
; APPLICANT: MERKULOV, Gennady V. et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001057-CIP
; CURRENT APPLICATION NUMBER: US/09/768,781
; CURRENT FILING DATE: 2001-01-25
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 405
; TYPE: PRT
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ORGANISM: Mus musculus  
US-09-768-781-6

Query Match 40.6%; Score 939.5; DB 10; Length 405;  
Best Local Similarity 43.8%; Pred. No. 9.6e-82;  
Matches 180; Conservative 85; Mismatches 135; Indels 11; Gaps 4;  
QY 33 PPSILFSTFLYCEAASALYMWIRKNSSTYRMTYTFSPFSSIMVQLTLPVHRDL 92  
DB 1 FPAVIAVFLFVAETAALYLSSTYSAGDRMKQVLTLLFSLPCALVQFTLLFVHRDL 60  
QY 93 AKDKPSLPHLLILGVRICLEMIRKYLTKKKEDEEPPYVSTRK-MLIDGEEVLIE 151  
DB 61 SRDRPLALLMHLQLGFLYRCCEVFCIYC---QSDNEEPVSVTKKQMPKGLSBEVE 117  
QY 152 WEVGHSTRTLAMERNYKRSQIOAFGLSGVPOLTYQLYVLSLISAEVLGRVVLVMSVLS 211  
DB 118 KEVQAEGKLIHRSASFASRAVIOAFGLSAPQLTQLYITVLEQNITTCRCFIMTSLLS 177  
QY 212 VTYGATLCNMLAIQIKDDYKIRLGPLEVLCITITWRTLEITSRLILVLSATLKLKAVP 271  
DB 178 IVYGALRCNLAIKIKYDEYEVKVKPLAYVCIFLWRSEFATRVIVLVSFLKIWVA 237  
QY 272 FLVNLFLILFEPWIKFWRSGAQMNNIEKNFNRVGTLLVLSVTILYAGINFSCWSALQ 331  
DB 238 VILVNFPSPLYPWIPWCSGSPPENIERALSRTGIVLVCPLTLLYAGINMFCWSAVQ 297  
QY 332 LRLADRLVDKQNGWGHMGLHYSVRLVENIMVLVFPFGVKVLLNCHSLIALQLIAY 391  
DB 298 LKIDNPILSKSQWYRLIYVYTRFIENSVLILLVFFKTDIYMYCAPLIIQLLIGY 357  
QY 392 LISIDFMLLPFQYLHPLRSFTHNVD---YLHCVCCHQHPRTVENSEP 438  
DB 358 CTGILFVLVYQFHPCKLUFSSSVSEFRLALRCACWSS---LRRKSSEP 405

RESULT 5  
US-09-864-761-33387  
Sequence 33387, Application US/09864761  
Patent No. US20020048763A1  
GENERAL INFORMATION:  
APPLICANT: Penn, Sharon G.  
APPLICANT: Rank, David R.  
APPLICANT: Hanzel, David K.  
APPLICANT: Chen, Wensheng  
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
FILE REFERENCE: Aeonica-X-1  
CURRENT APPLICATION NUMBER: US/09/864,761  
PRIOR FILING DATE: 2001-05-23  
PRIOR APPLICATION NUMBER: US 60/180,312  
PRIOR FILING DATE: 2000-02-04  
PRIOR APPLICATION NUMBER: US 60/207,456  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/632,366  
PRIOR FILING DATE: 2000-08-03  
PRIOR APPLICATION NUMBER: GB 24263,6  
PRIOR FILING DATE: 2000-10-04  
PRIOR APPLICATION NUMBER: US 60/236,359  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: PCT/US01/00666  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00667  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00664  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00669  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00663

PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00662  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00661  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00670  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: US 60/234,687  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: US 09/608,408  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: US 09/774,203  
PRIOR FILING DATE: 2001-01-29  
NUMBER OF SEQ ID NOS: 49117  
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1  
SEQ ID NO 33387  
LENGTH: 216  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: MAP TO AC005301.16  
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3  
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.5  
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.5  
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3  
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.2  
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.7  
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.6  
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.1  
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.3  
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.8  
OTHER INFORMATION: EST HUMAN HIT: AA256009.1, EVALUO 3.00e-13  
OTHER INFORMATION: SWISSPROT HIT: P51811, EVALUO 8.00e-41  
US-09-864-761-33387

Query Match 26.2%; Score 607; DB 10; Length 216;  
Best Local Similarity 55.1%; Pred. No. 2.5e-50;  
Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;  
QY 213 TYGATLCNMLAIQIKDDYKIRLGPLEVLCITITWRTLEITSRLILVLSATLKLKAVPF 272  
DB 1 TYGAIRCNLAIQISNDDTTIKLPPIEFFCVVMWRFLVISRVVTLAFFIASLKLSPV 60  
QY 273 LVNLFLILFEPWIKFWRSGAQMNNIEKNFNRVGTLLVLSVTILYAGINFSCWSALQ 332  
DB 61 LLIIYFVSLAPLWEPWKSAGHLFGKNENNSNMVGTVMFLFLITLLYAAINFSCWSAVKL 120  
QY 333 RLADRLVDKQNGWGHMGLHYSVRLVENIMVLVFPFGVKVLLNCHSLIALQLIAYL 392  
DB 121 QLSDDKIIDGRQWRGHRILHYSFQFLENVIMLVFRFPGKTLNCCDSLIAVQLIISYL 180  
QY 393 ISIDFMLLPFQYLHPLRS 410  
DB 181 LATCFMLLFYQLYLPWQS 198

RESULT 6  
US-10-092-154-595  
Sequence 595, Application US/10092154  
Publication No. US20030054375A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PC009C1  
CURRENT APPLICATION NUMBER: US/10/092,154  
CURRENT FILING DATE: 2002-03-07  
NUMBER OF SEQ ID NOS: 2003  
Prior Application removed - See File Wrapper or Palm  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 595  
LENGTH: 125  
TYPE: PRT  
ORGANISM: Homo sapiens

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; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (70)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: misc_feature
; LOCATION: (75)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: misc feature
; LOCATION: (81)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: misc_feature
; LOCATION: (83)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-092-154-595

Query Match      24.7%; Score 572; DB 9; Length 125;
Best Local Similarity 94.7%; Pred. No. 2.6e-47;
Matches 108; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 312 LISVTILYAGINFSCWSALQLRLADRLVDKQNGNMGHGLHYSVRLVENIMVLVFKPFG 371
Db 12 LISVTILYAGINFSCWSALQLRLADRLVDKQNGNMGHGLHYSVRLVENIMVLVFKPFG 71

QY 372 VKVLNYCHSLIALQLIITAYLISIDFMLLFFQYLHPLRSLSLFTNNVVDYLHCVCC 425
Db 72 VKVLNYCHSLIALQLIITAYLISIDFMLLFFQYLHPLRSLSLFTNNVVDYLHCVCC 125

RESULT 7
US-09-764-847-595
; Sequence 595, Application US/09764847
; Patent No. US20020132767A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC009
; CURRENT APPLICATION NUMBER: US/09/764,847
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2003
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 595
; LENGTH: 125
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (70)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (75)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (81)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (83)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-847-595

Query Match      24.7%; Score 572; DB 10; Length 125;
Best Local Similarity 94.7%; Pred. No. 2.6e-47;
Matches 108; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 312 LISVTILYAGINFSCWSALQLRLADRLVDKQNGNMGHGLHYSVRLVENIMVLVFKPFG 371
Db 12 LISVTILYAGINFSCWSALQLRLADRLVDKQNGNMGHGLHYSVRLVENIMVLVFKPFG 71

QY 372 VKVLNYCHSLIALQLIITAYLISIDFMLLFFQYLHPLRSLSLFTNNVVDYLHCVCC 425
Db 72 VKVLNYCHSLIALQLIITAYLISIDFMLLFFQYLHPLRSLSLFTNNVVDYLHCVCC 125
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RESULT 8
US-09-864-761-37894
; Sequence 37894, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aescmica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
; SEQ ID NO 37894
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC007064.22
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.92
; OTHER INFORMATION: EST HUMAN HIT: AA256009.1, EVALUATE 2.00e-13
; OTHER INFORMATION: SWISSPROT HIT: P51811, EVALUATE 5.00e-18
US-09-864-761-37894

Query Match      15.3%; Score 354; DB 10; Length 128;
Best Local Similarity 59.6%; Pred. No. 1.8e-26;
Matches 65; Conservative 23; Mismatches 21; Indels 0; Gaps 0;

QY 302 NFSRVGTILVILSVITLYAGINFSCWSALQLRLADRLVDKQNGNMGHGLHYSVRLVENV 361
Db 2 NSNVGTIVMLFLITLLYAAINFSCWSAVKLQSLSDKIDGRQRWGRHRLHYSPQFLENV 61

QY 362 IMVLVFKPFGVKVLNYCHSLIALQLIITAYLISIDFMLLFFQYLHPLRS 410
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QY 388 II-----AYLISIDFWLLFFQYLHP 407  
 Db 297 IAGVLSGFLIGSVSLVIYSLLHP 320

## RESULT 11

US-10-176-758-524  
 ; Sequence 524, Application US/10176758  
 ; Publication No. US20030008353A1  
 ; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Chen, Jian  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; FILE REFERENCE: P3430R1C104  
 ; CURRENT APPLICATION NUMBER: US/10/176,758  
 ; CURRENT FILING DATE: 2002-06-21  
 ; Prior Application removed - See File Wrapper or Palm  
 ; NUMBER OF SEQ ID NOS: 612  
 ; SEQ ID NO 524  
 ; LENGTH: 686  
 ; TYPE: PRT  
 ; ORGANISM: Homo Sapien

## US-10-176-758-524

Query Match 4.9%; Score 113; DB 9; Length 686;

Best Local Similarity 20.8%; Pred. No. 0.018;  
 Matches 80; Conservative 57; Mismatches 159; Indels 88; Gaps 15;

QY 40 STFLYCGEASALYVRIYKNSETYRTYTFSPFMSFSSIMVQLTLIFVHRDLAKDKPLS 99  
 Db 9 SALLQAAEQSARLYTVAYYFTTGRLLMGWALAVLLPGFLVQALSYLWFRADGHPGHCSL 68  
 QY 100 LFMHLILGLPVIRCLEAMIKYLTLMKKEEQEPEYVSLTRKMKMLDGEVLEIWEVGHSHIR 159  
 Db 69 VMLHLQLQGVKWRHDAALTSL-----OKELEAPHRG-----W----- 101  
 QY 160 TLAVHRNAYKMSQIAPLGSPOLTYQLYVSLISAEPVLRVLMVSLVSVTYGATLC 219  
 Db 102 -LQLEADLSALRLEALLQTPHLLQTYVFLASDFTDIVPGVSTLFSWSLSWAL--- 157  
 QY 220 NMLAIQIKYDDYKIRLGP-----LEVLCITITWRTLEITSRLILVLSATLKLKAVPF 272  
 Db 158 -----VSYTFMGFMKPGHLMAMPAAALFCOOLWRMGMLGTRVLSLVLF-----YKAYHF 206  
 QY 273 LVNLFILPEPWI--KFWRSQAQMPNNIEKNFS-RVGTLVVLSISVTILYAGINFSCWSA 329  
 Db 207 WV---FVAGAHNLVMTFLV-AQSDIIDSTCHWRLENLLVGAVIILCY-----LSFWD 258  
 QY 330 LQLRADRLVDKQNGMHGMLHYSVRLENVIMVLPKFF--GVKVLNLYCHSLIALQL 387  
 Db 259 -----PSRRNMVTFYVMVLMLENIILLLATDPLQGA-----SWTSLOT 296  
 QY 388 II-----AYLISIDFWLLFFQYLHP 407  
 Db 297 IAGVLSGFLIGSVSLVIYSLLHP 320

## RESULT 12

US-10-175-737-524  
 ; Sequence 524, Application US/10175737  
 ; Publication No. US20030013153A1  
 ; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Chen, Jian  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; FILE REFERENCE: P3430R1C104  
 ; CURRENT APPLICATION NUMBER: US/10/175,737  
 ; CURRENT FILING DATE: 2002-06-19  
 ; Prior Application removed - See File Wrapper or Palm  
 ; NUMBER OF SEQ ID NOS: 612  
 ; SEQ ID NO 524  
 ; LENGTH: 686  
 ; TYPE: PRT  
 ; ORGANISM: Homo Sapien

## US-10-175-737-524

Query Match 4.9%; Score 113; DB 9; Length 686;

Best Local Similarity 20.8%; Pred. No. 0.018;  
 Matches 80; Conservative 57; Mismatches 159; Indels 88; Gaps 15;

QY 40 STFLYCGEASALYVRIYKNSETYRTYTFSPFMSFSSIMVQLTLIFVHRDLAKDKPLS 99  
 Db 9 SALLQAAEQSARLYTVAYYFTTGRLLMGWALAVLLPGFLVQALSYLWFRADGHPGHCSL 68  
 QY 100 LFMHLILGLPVIRCLEAMIKYLTLMKKEEQEPEYVSLTRKMKMLDGEVLEIWEVGHSHIR 159  
 Db 69 VMLHLQLQGVKWRHDAALTSL-----OKELEAPHRG-----W----- 101  
 QY 160 TLAVHRNAYKMSQIAPLGSPOLTYQLYVSLISAEPVLRVLMVSLVSVTYGATLC 219  
 Db 102 -LQLEADLSALRLEALLQTPHLLQTYVFLASDFTDIVPGVSTLFSWSLSWAL--- 157  
 QY 220 NMLAIQIKYDDYKIRLGP-----LEVLCITITWRTLEITSRLILVLSATLKLKAVPF 272  
 Db 158 -----VSYTFMGFMKPGHLMAMPAAALFCOOLWRMGMLGTRVLSLVLF-----YKAYHF 206  
 QY 273 LVNLFILPEPWI--KFWRSQAQMPNNIEKNFS-RVGTLVVLSISVTILYAGINFSCWSA 329  
 Db 207 WV---FVAGAHNLVMTFLV-AQSDIIDSTCHWRLENLLVGAVIILCY-----LSFWD 258  
 QY 330 LQLRADRLVDKQNGMHGMLHYSVRLENVIMVLPKFF--GVKVLNLYCHSLIALQL 387  
 Db 259 -----PSRRNMVTFYVMVLMLENIILLLATDPLQGA-----SWTSLOT 296  
 QY 388 II-----AYLISIDFWLLFFQYLHP 407  
 Db 297 IAGVLSGFLIGSVSLVIYSLLHP 320

## RESULT 13

US-10-173-706-524  
 ; Sequence 524, Application US/10173706  
 ; Publication No. US2003002293A1  
 ; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Chen, Jian  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

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; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430RIC7
; CURRENT APPLICATION NUMBER: US/10/173,706
; CURRENT FILING DATE: 2002-06-17
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 524
; LENGTH: 686
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-706-524

Query Match 4.9%; Score 113; DB 9; Length 686;
Best Local Similarity 20.8%; Pred. No. 0.018;
Matches 80; Conservative 57; Mismatches 159; Indels 88; Gaps 15;

QY 40 STFLYCEAASALYMYRIYRNKSETYRMTYTFSPFSSIMVQLTIFVHRDLAKDKPLS 99
Db 9 SALLQAAEQSARLYTVAYYFTTGRLLWGLALAVLLPGFLVQALSYLWFRADGHPGHCSL 68
QY 100 LFMHLLILGPIRCLNMIKYLTLWKKEOEPEPVSLTRKKMLDGEVLEIWEVGHISIR 159
Db 69 VMLHLLQLGWKRWDAALTSL-----QKELEAPHRG-----W----- 101
QY 160 TLAMHRNAYKRMISQIOAFLGSPQLTYQLYVSLISAEVPLGRVVLVMSVLSVSYTYGATLC 219
Db 102 -LQLEADLSALRLEALLQTGPHLLLTQTVFLASDFTDIVPGVSTLFSWSSLSWAL--- 157
QY 220 NMLAIQIKYDDYKIRLGP-----LEVLCITITWRTLEITSRLILVLSATLKLKAVPF 272
Db 158 -----VSYTRFPMGFKPGHLMFWAALFCQQLWRMGLTRVLSLVLF-----YKAYHF 206
QY 273 LVNLFILILEPEMI--KFWRSQGMNPNIEKNFS-RVGTLLVLSIVTILYAGINFSCWSA 329
Db 207 WV---FVAGAHVLMVTMLV-AQSDIIDSTCHWRFLNLLVGAIVILCY---LSFWDS 258
QY 330 LQRLADRLVDKQNGHMGHLYSVRLVENIMVLVFKPF--GVKVLNLYCHSLIALQL 387
Db 259 -----PSNRNMTYFMVWMLLENIILLLATDPLQGA-----SWTSLQT 296

QY 388 II-----AYLISIDFMLLFFOYLHP 407
Db 297 IAGVLSGFLIGSVSLVIYYSLLHP 320

RESULT 14
US-10-175-738-524
; Sequence 524, Application US/10175738
; Publication No. US20030022294A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430RIC45
; CURRENT APPLICATION NUMBER: US/10/175,738
; CURRENT FILING DATE: 2002-06-19
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 524
; LENGTH: 686
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-738-524

Query Match 4.9%; Score 113; DB 9; Length 686;
Best Local Similarity 20.8%; Pred. No. 0.018;
Matches 80; Conservative 57; Mismatches 159; Indels 88; Gaps 15;

QY 40 STFLYCEAASALYMYRIYRNKSETYRMTYTFSPFSSIMVQLTIFVHRDLAKDKPLS 99
Db 9 SALLQAAEQSARLYTVAYYFTTGRLLWGLALAVLLPGFLVQALSYLWFRADGHPGHCSL 68
QY 100 LFMHLLILGPIRCLNMIKYLTLWKKEOEPEPVSLTRKKMLDGEVLEIWEVGHISIR 159
Db 69 VMLHLLQLGWKRWDAALTSL-----QKELEAPHRG-----W----- 101
QY 160 TLAMHRNAYKRMISQIOAFLGSPQLTYQLYVSLISAEVPLGRVVLVMSVLSVSYTYGATLC 219
Db 102 -LQLEADLSALRLEALLQTGPHLLLTQTVFLASDFTDIVPGVSTLFSWSSLSWAL--- 157
QY 220 NMLAIQIKYDDYKIRLGP-----LEVLCITITWRTLEITSRLILVLSATLKLKAVPF 272
Db 158 -----VSYTRFPMGFKPGHLMFWAALFCQQLWRMGLTRVLSLVLF-----YKAYHF 206
QY 273 LVNLFILILEPEMI--KFWRSQGMNPNIEKNFS-RVGTLLVLSIVTILYAGINFSCWSA 329
Db 207 WV---FVAGAHVLMVTMLV-AQSDIIDSTCHWRFLNLLVGAIVILCY---LSFWDS 258
QY 330 LQRLADRLVDKQNGHMGHLYSVRLVENIMVLVFKPF--GVKVLNLYCHSLIALQL 387
Db 259 -----PSNRNMTYFMVWMLLENIILLLATDPLQGA-----SWTSLQT 296

QY 388 II-----AYLISIDFMLLFFOYLHP 407
Db 297 IAGVLSGFLIGSVSLVIYYSLLHP 320

RESULT 15
US-10-175-752-524
; Sequence 524, Application US/10175752
; Publication No. US20030022295A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430RIC60
; CURRENT APPLICATION NUMBER: US/10/175,752
; CURRENT FILING DATE: 2002-06-19
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 524
; LENGTH: 686
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-752-524

Query Match 4.9%; Score 113; DB 9; Length 686;
Best Local Similarity 20.8%; Pred. No. 0.018;
Matches 80; Conservative 57; Mismatches 159; Indels 88; Gaps 15;

QY 40 STFLYCEAASALYMYRIYRNKSETYRMTYTFSPFSSIMVQLTIFVHRDLAKDKPLS 99
Db 9 SALLQAAEQSARLYTVAYYFTTGRLLWGLALAVLLPGFLVQALSYLWFRADGHPGHCSL 68
QY 100 LFMHLLILGPIRCLNMIKYLTLWKKEOEPEPVSLTRKKMLDGEVLEIWEVGHISIR 159
Db 69 VMLHLLQLGWKRWDAALTSL-----QKELEAPHRG-----W----- 101
QY 160 TLAMHRNAYKRMISQIOAFLGSPQLTYQLYVSLISAEVPLGRVVLVMSVLSVSYTYGATLC 219
Db 102 -LQLEADLSALRLEALLQTGPHLLLTQTVFLASDFTDIVPGVSTLFSWSSLSWAL--- 157
QY 220 NMLAIQIKYDDYKIRLGP-----LEVLCITITWRTLEITSRLILVLSATLKLKAVPF 272
Db 158 -----VSYTRFPMGFKPGHLMFWAALFCQQLWRMGLTRVLSLVLF-----YKAYHF 206
QY 273 LVNLFILILEPEMI--KFWRSQGMNPNIEKNFS-RVGTLLVLSIVTILYAGINFSCWSA 329
Db 207 WV---FVAGAHVLMVTMLV-AQSDIIDSTCHWRFLNLLVGAIVILCY---LSFWDS 258
QY 330 LQRLADRLVDKQNGHMGHLYSVRLVENIMVLVFKPF--GVKVLNLYCHSLIALQL 387
Db 259 -----PSNRNMTYFMVWMLLENIILLLATDPLQGA-----SWTSLQT 296

QY 388 II-----AYLISIDFMLLFFOYLHP 407
Db 297 IAGVLSGFLIGSVSLVIYYSLLHP 320
```

```
Db 69 VMLHLLQLGVVWRHWAALTSL-----QKELEAPHRG-----W----- 101
Qy 160 TLAMHNAYKMSQIQAFGLGSPOLTYQLYVSLISAEPVPLGRVVLVWPSLSVSVTYGATLC 219
Db 102 -LQLOEADLSALRLLEALLQTGPHLLLOTYVFLASDFTDIVEGVSTLFSWSSLSWAL--- 157
Qy 220 NMLAIQIKYDDYKIRLGP-----LEVLCITWRTLEITSRLILVLFSATLKLKAVPF 272
Db 158 -----VSYTFMGPMKPGHLPWPAALFCQQLWRMGMLGTRVLSLVF-----YKAYHP 206
Qy 273 LVNLFLIILFEFWI--KFWRGAQMPNNEKNFS-RVGTLVVLIISVTILYAGINFSCWSA 329
Db 207 WV---FVVGAAHVLVMTFWLV-AQOSDIIDSTCHWRLEFNLVGVAVILCY-----LSPWDS 258
Qy 330 LQLRLADRDLDVKQGNWGHMGLHYSVRLVENVIMVLVPKFP--GVKVLNLYCHSLIALQL 387
Db 259 -----PSRNRMTVTFYVMVLENIILLLATDFLOGA-----SWTSIQT 296
Qy 388 II-----AYLISIDFMLLFFOVLHP 407
Db 297 IAGVLGFLIGSVSLVYYISLLHP 320
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Job time : 21 secs